

PATENT ABSTRACTS OF JAPAN

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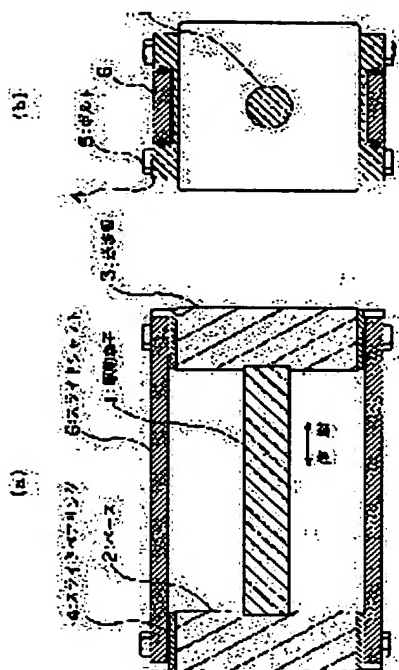
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(21)Application number : 2000-316444 (71)Applicant : OKI ELECTRIC IND CO LTD

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(54) ACOUSTIC TRANSMITTER/RECEIVER USING ULTRA- MAGNETOSTRICTIVE
MATERIAL AND METHOD FOR MANUFACTURING THE SAME



(57)Abstract:

PROBLEM TO BE SOLVED: To provide an acoustic transmitter/receiver using ultra-magnetostrictive materials capable of preventing ultra-magnetostrictive materials from being broken even when any outer force leading to the bending of a driving element made of bar-shaped ultra-magnetostrictive materials is applied, and preventing the performance of a transmitter/receiver from being deteriorated.

SOLUTION: One edge of a driving element 1 is adhered and fixed to the central part of a base 2, and the other edge is adhered and fixed to the central part of a transmitting plate 3, and

slide bearings 4 are respectively fixed to the upper edge face and lower edge face of the base 2 and the upper edge face and lower edge face of the transmitting plate 3, and slide shafts 6 are respectively arranged so as to be slide engaged between the respective slide bearings of the base 2 and the respective slide bearings of the transmitting plate 3 so that the sliding axes of the respective slide shafts can be made in parallel.

LEGAL STATUS

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